

CAS-No.: 7664-38-2 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier		
Product	form	:	Mixture
		:	
CAS-No).	:	7664-38-2
Product	code	:	5063D
Synonyi	ns	:	Phosphoric Acid

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, H314 Category 1

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects No additional information available

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2.2. Label elements

Labelling according to Regulation (EC)	No. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display
Hazard pictograms (CLP)	

GHS05

: Danger

Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)

- : H314 Causes severe skin burns and eye damage.
- : P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ORTHOPHOSPHORIC ACID	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6	88 - 90	Skin Corr. 1B, H314 Eye Dam. 1, H318
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	10 - 15	Not classified

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measured	ires
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
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cording to Regulation (EC) No. 1907/2006 (REACH)	: Rinse mouth out with water. If you feel unwell, seek medical advice.
_	·
	effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage.
I.3. Indication of any immediate me	edical attention and special treatment needed
Freat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Jnsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	ne substance or mixture
No additional information available	
5.3. Advice for firefighters	· Do not attempt to take action without suitable protective assignment
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measur	es
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
5.2. Environmental precautions Avoid release to the environment.	
6.3. Methods and material for conta	
Methods for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
6.4. Reference to other sections	
No additional information available	
ECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, in	cluding any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in a well-ventilated place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	al protection
3.1. Control parameters	

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Hand protection:protective glovesEye protection:Chemical googles or safety glassesSkin ab dody protection:Waar appropriate maskEXECTOR 19: Physical and chemical propertiesPhysical state:LiquidMolecular mass:88 g/molColour:Clear Colorless.Odour:Odourless.Colour:No data availableOdour threshold:No data availablePhysical state:No data availableOdour threshold:No data availablePh:No data availableMaling point:No data availablePoint:No data available<	8.2. Exposure controls	
Skin and body protection i Wear appropriate mask SECTION 9: Physical and chemical properties 9.1. Information on basic physical are chemical properties Physical state : Liquid Molecular mass : 98 g/mol Colour : Clear Coloriess. Odour threshold : No data available pH : 1.5 Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available Beling point : No data available Auto-ignition temperature : No data available Cacor construct (butylacetate=1) : No data available Defining point : No data available Auto-ignition temperature : No data available Cacor construct (butylacetate) : No data available Auto-ignition temperature : No data available Cacor construct temperature : No data available Capor pressure : No data available Relative density : No data available	Hand protection	: protective gloves
Respiratory protection i. Wear appropriate mask SECTION 3: Physical and chemical properties Physical state i. Liquid Molecular mass 9.8 g/mol Colour i. Clear Colontess. Odour i. Odourless. Odour threshold i. No data available pH i. 1.5 Relative evaporation rate (butylacette=1) i. No data available Melting point i. 40 °C Freezing point i. No data available Bolling point i. So data available Auto-ignition temperature i. No data available Pathonit i. No data available Pathonit i. No data available Auto-ignition temperature i. No data available Pathonit i. No data available Pathonit i. No data available Pathonit (solid, gas) i. No data available Pathonit (solid) i. No data available	Eye protection	: Chemical goggles or safety glasses
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Explosive limits : No data available	Oxidising properties	: No data available
	Explosive limits	: No data available

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	9.2. Other information				
No add	itional information available				
SECTIO	ON 10: Stability and reactivity				
10.1.	Reactivity				
	itional information available				
NU auu					
10.2.	Chemical stability				
Stable (under normal conditions of use.				
10.3.	Possibility of hazardous reaction	ons			
No add	itional information available				
10.4.	Conditions to avoid				
Direct s	unlight. Heat.				
10.5.	Incompatible materials				
	itional information available				
NO auu					
10.6.	Hazardous decomposition proc	ducts			
No add	itional information available				
SECTIO	NI 11. Texicological information				
OLONG	ON 11: Toxicological information				
11.1.	Information on toxicological ef				
	Information on toxicological ef				
11.1.	Information on toxicological ef	fects			
11.1.	Information on toxicological ef	fects			
11.1. Acute to	Information on toxicological ef	fects			
11.1. Acute to	Information on toxicological ef	fects : Not classified			
11.1. Acute to Skin co	Information on toxicological ef	fects : Not classified : Causes severe skin burns and eye damage.			
11.1. Acute to Skin co	Information on toxicological effort	fects : Not classified : Causes severe skin burns and eye damage. pH: 1.5			
11.1. Acute to Skin co Serious	Information on toxicological effort	fects Not classified Causes severe skin burns and eye damage. pH: 1.5 Serious eye damage, category 1, implicit 			
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SECTION 12: Ecological information

12.1. Toxicity

No additional information available

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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
No additional information available	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	: 1805
UN-No. (ADR) UN-No. (IMDG)	: 1805
UN-No. (IATA)	: 1805
UN-No. (ADN)	: 1805
UN-No. (RID)	: 1805
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: PHOSPHORIC ACID, SOLUTION
Proper Shipping Name (IMDG)	: PHOSPHORIC ACID SOLUTION
Proper Shipping Name (IATA)	: Phosphoric acid, solution
Proper Shipping Name (ADN)	: PHOSPHORIC ACID, SOLUTION
Proper Shipping Name (RID)	: PHOSPHORIC ACID, SOLUTION
Transport document description (ADR)	: UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III, (E)
Transport document description (IMDG)	: UN 1805 PHOSPHORIC ACID SOLUTION, 8, III
Transport document description (IATA)	: UN 1805 Phosphoric acid, solution, 8, III
Transport document description (ADN)	: UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III
Transport document description (RID)	: UN 1805 PHOSPHORIC ACID, SOLUTION, 8, III
44.9 Transmost berevel along (re)	
14.3. Transport hazard class(es) ADR	
	· 8
Transport hazard class(es) (ADR) Danger labels (ADR)	: 8 : 8
Danger labels (ADR)	. U

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IMDG

ΙΑΤΑ

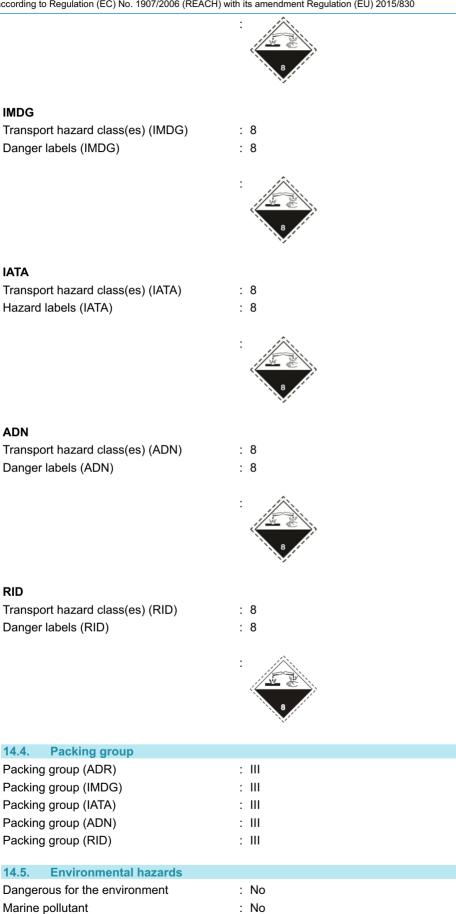
ADN

RID

14.4.

14.5.

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Other information

Marine pollutant

: No supplementary information available

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14.6. Special precautions for user

- Overland transport Classification code (ADR)	: C1
	: 51
Limited quantities (ADR)	: E1
Excepted quantities (ADR)	
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	80 1805
Tunnel restriction code (ADB)	: E
Tunnel restriction code (ADR)	
EAC code	: 2R
- Transport by sea	
Special provisions (IMDG)	: 223
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: 0 D
Properties and observations (IMDG)	: Miscible in water. Mildly corrosive to most metals.
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C1
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: Т
Equipment required (ADN)	: PP, EP
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Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C1
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	None of the components are listed
SZW-lijst van mutagene stoffen	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	None of the components are listed
Denmark		

Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
rteeenmendatione Banien rtegalation	. Totalig people below allo age of the your and her allowed to allo produce

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product